

# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

JULY 1935

Any five of the nontechnical publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject matter specialists.

*Apanteles solitarius* (Ratzeburg), an introduced braconid parasite of the satin moth. D. L. Parker, Bureau of Entomology and Plant Quarantine. 18. p., illus. (T. B. 477T.) Price, 5¢.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

The disposal by burial of fruit infested with larvae of the Mexican fruit fly. C. C. Plummer and W. E. Stone, Bureau of Entomology and Plant Quarantine. 16 p., illus. (Cir. 349C.) Price, 5¢.

Economic importance of red rot and comparative susceptibility of some sugarcane varieties in the southern United States. E. V. Abbott, Bureau of Plant Industry. 27 p., illus. (Cir. 350C.) Price, 5¢.

### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Directory of the Bureau of Entomology and Plant Quarantine, 1935. Bureau of Entomology and Plant Quarantine. 88 p. (M. P. 220MP.) Price, 10¢.

### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Regulations of the Secretary of Agriculture under the United States Grain Standards Act. Effective July 1, 1935. Bureau of Agricultural Economics. 16 p. (S. R. A.-B. A. E. 148.)<sup>1</sup>

Regulations governing the meat inspection of the United States Department of Agriculture. Amendment to regulation 18, B. A. I. Order 211, revised. Bureau of Animal Industry. 1 p. (Amndt. 9 to B. A. I. Order 211, rev.)<sup>1</sup>

Regulations governing the recognition of breeds and purebred animals. Bureau of Animal Industry. 8 p. (B. A. I. Order 350.)<sup>1</sup>

<sup>1</sup> These may be obtained from the issuing bureau.

Regulations governing the importation of domestic livestock and other animals into the United States from all countries except Mexico. Effective on and after August 1, 1935. Bureau of Animal Industry. 11 p. (B. A. I. Order 352.)<sup>1</sup>

Order to prevent the introduction into the United States of rinderpest and foot-and-mouth disease. Effective August 1, 1935. Bureau of Animal Industry. 2 p. (B. A. I. Order 353.)<sup>1</sup>

Bureau of Animal Industry, Index to Service and Regulatory Announcements, January-December 1934. Pp. 115-117.<sup>1</sup> Price, 5¢.

Bureau of Animal Industry, Service and Regulatory Announcements, May 1935. Pp. 45-53. (S. R. A.-B. A. I. 337.) Price, 5¢.

List of intercepted plant pests, 1934. July 1935. Bureau of Entomology and Plant Quarantine. 84 p. (S. R. A.-B. E. P. Q.)<sup>1</sup>

Japanese beetle quarantine. Quarantine no. 48, revision of regulations. Effective June 1, 1935. Bureau of Entomology and Plant Quarantine. 13 p. (B. E. P. Q.-Q. 48.)<sup>1</sup>

Bureau of Entomology and Plant Quarantine, Service and Regulatory Announcements, January-March 1935. Pp. 1-26. (S. R. A.-B. E. P. Q. 122.)<sup>1</sup>

#### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Alabama, Perry County. (No. 30, series 1930.) 42 p., illus. Price, 30¢.

Colorado, the Brighton area. (No. 1, series 1932.) 35 p., illus. Price, 20¢.

Iowa, Monroe County. (No. 9, series 1931.) 41 p., illus. Price, 25¢.

Kansas, Neosho County. (No. 33, series 1930.) 26 p., illus. Price, 20¢.

Texas, Randall County. (No. 27, series 1930.) 32 p., illus. Price, 35¢.

#### OTHER PUBLICATIONS

Yearbook of agriculture, 1935. Milton S. Eisenhower and Arthur P. Chew. 762 p., illus. For sale only. Price, \$1.00.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 19, no. 7, July 1, 1935. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

Experiment station record. Vol. 72, no. 6, June 1935. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Extension service review. Vol. 6, nos. 5-6, May-June 1935. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 49, July 1-December 15, 1934. Title page, contents, and index. Pp. 1243-1253. Price, 5¢.

— Vol. 50, no. 7, April 1, 1935. Illus.  
Contents:

Correlation studies of egg production and possible genetic interpretations (A-165).

Charles W. Knox, Morley A. Jull, and Joseph P. Quinn.

Cytogenetics of tetraploid maize (G-953). L. F. Randolph.

Comparative resistance of five breeds of chickens to the nematode *Ascaridia lineata* (Schneider) (Kans.-75). J. E. Ackert, L. L. Eisenbrandt, J. H. Wilmoth, B. Glading, and I. Pratt.

Inheritance of cold resistance in winter wheat, with preliminary studies on the technic of artificial freezing tests (Ind.-24). W. W. Worzella.

A photoelectric device for the rapid measurement of leaf area (Ind.-25). Robert B. Withrow.

— Vol. 50, no. 8, April 15, 1935. Illus.  
Contents:

A physiological study of development and ripening in the strawberry (G-964).

Charles W. Culpepper, Joseph S. Caldwell, and Hubert H. Moon.

The trend of organic food reserves in alfalfa roots as affected by cutting practices (G-966). C. O. Grandfield.

Yield and chemical composition of certain species of grass (Mass.-41). J. G. Archibald and E. Bennett.

— Vol. 50, no. 9, May 1, 1935. Illus.  
Contents:

Rate of decomposition of organic matter in Norfolk sand as measured by the formation of carbon dioxide and nitrates. (Fla.-14). Charles E. Bell.

The effect of grinding on the digestibility of corn by pigs and on its content of metabolizable energy (Ill.-59). W. P. Garrigus and H. H. Mitchell.

Studies on bean rust caused by *Uromyces phaseoli typica* (G-965). L. L. Harter, C. F. Andrus, and W. J. Zaunmeyer.

The microbiological decomposition of the constituents of alfalfa hay (E-59).

Max Phillips, M. J. Goss, E. A. Beavens, and L. H. James.

Some factors influencing the yield and mortality of ponderosa pine in the Southwest (F-69). B. R. Lexen.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Indicate below, by numbers **IN NUMERICAL ORDER**, bulletins desired. In order to assure prompt delivery, detach this frank and return in stamped envelop to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired, please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication.

Farmer's Bulletins	Leaflets	Other publications



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## Journal of agricultural research—Continued.

Vol. 50, no. 10. May 15, 1935. Illus.

## Contents:

- Fungi causing stain in logs and lumber in the Southern States, including five new species (G-963). Ross W. Davidson.  
 Effect of annual grass fires on organic matter and other constituents of virgin longleaf pine soils (A-166). S. W. Greene.  
 Histological studies of Wisconsin Hollander and Wisconsin Ballhead cabbage in relation to resistance to yellows (Wis.-65). M. E. Anderson and J. C. Walker.  
 Nutrient value of the phosphorus in calcined phosphate as determined by growth of plants in greenhouse experiments (E-60). K. D. Jacob, R. P. Bartholomew, B. E. Brown, W. H. Pierre, F. R. Reid, and J. W. Tidmore.  
 The phosphorus content and requirements of the flour beetle *Tribolium confusum* Duval, and a study of its needs for vitamin D (Minn.-92). J. W. Nelson and L. S. Palmer.  
 Vitamin A content of eggs produced by chickens fed viosterol and various percentages of cod-liver oil (T-7). Grace M. DeVaney, Harry W. Titus, and Ralph B. Nestler.

Vol. 50, no. 11. June 1, 1935. Illus.

## Contents:

- Effect of temperature and light on development of the uredial stage of *Puccinia graminis* (G-967). Leonard W. Melander.  
 A new criterion for the comparison of toxicity with respect to concentration and time (E-61). W. A. Gersdorff.  
 The quantitative relationship between the constitution and toxicity of some rotenone derivatives (E-62). W. A. Gersdorff.  
 Effect of gossypol upon the muscle of the small intestine of the rat (Mich.-26). L. A. Moore.  
 A study of the palatability and possible toxicity of 11 species of *Crotalaria*, especially of *C. spectabilis* Roth (Fla.-15). R. B. Becker, W. M. Neal, P. T. Dix Arnold, and A. L. Shealy.  
 Classification of chick-embryo positions at different ages and malposition as a cause of mortality (Maine-23). W. Franklin Dove.

— Vol. 50, no. 12, June 15, 1935. Illus.

## Contents:

- Physiological studies of several pathogenic bacteria that induce cell stimulation in plants (Wis.-67). J. A. Pinckard.  
 Ovarian development in calves (Wis.-66). L. E. Casida, A. B. Chapman, and I. W. Rupel.  
 Effect of fertilizers, soil type, and certain climatic factors on the yield and composition of oats and vetch (Wash.-22). G. O. Baker and S. C. Vandecaveye.  
 Pear root concentration in relation to soil-moisture extraction in heavy clay soil (G-968). W. W. Aldrich, R. A. Work, and M. R. Lewis.  
 The Mexican bean beetle in Mexico (K-261). B. J. Landis and C. C. Plummer.

Public roads. Vol. 16, nos. 4-5, June-July 1935. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

Weekly weather and crop bulletin. Nos. 27-30, July 2-23, 1935. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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